

Title (en)
BEAD-STIFFENED MOVABLE SURFACES

Title (de)
SICKENVERSTEIFTE BEWEGLICHE OBERFLÄCHEN

Title (fr)
SURFACES MOBILES RENFORCÉES PAR DES NERVURES

Publication
EP 3945017 B1 20230315 (EN)

Application
EP 21188215 A 20210728

Priority
US 202063057944 P 20200729

Abstract (en)
[origin: EP3945017A1] A movable surface of an aircraft has a front spar extending along a spanwise direction between opposing movable surface ends. The movable surface also includes a plurality of ribs defining a plurality of bays between adjacent pairs of the ribs. Each rib extends between the front spar and a trailing edge portion of the movable surface. The movable surface further includes an upper and a lower skin panels coupled to the ribs and the front spar. In addition, the movable surface includes a plurality of bead stiffeners coupled to an inner surface of at least one of the upper skin panel and the lower skin panel. The bead stiffeners within the bays are spaced apart from each other and are oriented non-parallel to the front spar and have a bead stiffener cap having opposing cap ends respectively located proximate the front spar and the trailing edge portion.

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